

**Notice of Allowability**

Application No.

10/721,283

Examiner

Kiet Doan

Applicant(s)

HOSODA ET AL.

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/06/2007.
2. ☒ The allowed claim(s) is/are 1-4 and 6-12.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 04/26/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Whitham at 703-787-9400 on 04/17/07.

The amendments are following:

**Claim 5** cancel.

**Claim 11** dependent on the claim 1.

**Claim 1.** A wireless LAN system for predicting movement destination of a child station, which includes the child station and a plurality of parent stations, wherein each of said parent stations has a MAC address and comprises:

a wireless communication section for conducting communication with the child station, the communication including detecting a handover of said child station from said parent station;

a table control section acquiring a table having the MAC address of each said parent stations that, relative to said parent station, can be a movement destination parent station registered, in response to said wireless communication section detecting the handover of the child station;

a band reserving request signal transmitting section for generating a

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transmission instruction for transmitting a band reserving request frame to all of said plurality of movement parent stations having their respective MAC address registered in said table movement destination parent station; and

a LAN communication section for receiving the transmission instruction and transmitting the band reserving request frame to the movement destination parent stations via LAN, further comprising:

a local area route information server for providing a route information to each of said parent stations, said route information representing a direction that a child station cannot be moved in relation to said parent station, wherein

said parent station further comprises a route state determining section for receiving and storing the route information and, based on said stored route information, nullifying a transmission instruction for transmitting a band reserving request to the parent station positioned in the direction in which the child station can not be moved.

**Claim 11.** The wireless LAN system for predicting movement destination of a child according to claim 1, wherein

said table control section counts the number of movement times of the child station for each aspect of movement source per movement destination from association setting information at a handover time to produce the table obtained by calculating movement destination ratios of the child station, and instructs to transmit the band reserving request frame to the parent station with the highest movement probability of the table.

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**Claim 12.** A wireless LAN parent station for predicting movement destination of a child station, comprising:

a wireless communication section for conducting communication with the child station, the communication including detecting a handover of said child station from said parent station;

a table control section for acquiring a table having the MAC address of each said parent stations that, relative to said parent station, can be a movement destination parent station registered, in response to said wireless communication section detecting the handover of the child station;

a band reserving request signal transmitting section for generating a transmission instruction for transmitting a band reserving request frame to all of said plurality of movement parent stations having their respective MAC address registered in said table movement destination parent station; and

a LAN communication section for receiving the transmission instruction and transmitting the band reserving request frame to the movement destination parent stations via LAN, , further comprising:

a local area route information server for providing a route information to each of said parent stations, said route information representing a direction that a child station cannot be moved in relation to said parent station, wherein

said parent station further comprises a route state determining section for receiving and storing the route information and, based on said stored route information,

nullifying a transmission instruction for transmitting a band reserving request to the parent station positioned in the direction in which the child station can not be moved.

End amendment.

### ***Allowable Subject Matter***

2. The following is an examiner's statement of reasons for allowance:

According to the Remark file on 04/06/2007 and examiner amendment. The office conducted further search and found none of the reference fairly teach or suggest all the limitations that specific detail as in independent claims 1 and 12. Therefore claims 1-4, 6-12 is allowed.

Accordingly, Applicant's claims are allowed for these reasons and for the reasons recited in an amendment file on 04/06/2007.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

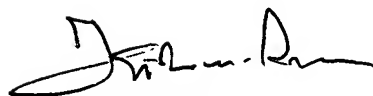
### ***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiet Doan whose telephone number is 571-272-7863. The examiner can normally be reached on 8am - 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Kiet Doan  
Patent Examiner



**JOSEPH FEILD**  
SUPERVISORY PATENT EXAMINER